```
NNN        NNN    CCCCCCCCCCC    PPPPPPPPPPP
NNN        NNN    CCCCCCCCCCC    PPPPPPPPPPPP
NNN        NNN    CCCCCCCCCCC    PPPPPPPPPPPP
NNN        NNN    CCC                PPP      PPP
NNN        NNN    CCC                PPP      PPP
NNN        NNN    CCC                PPP      PPP
NNNNNN     NNN    CCC                PPP      PPP
NNNNNN     NNN    CCC                PPP      PPP
NNNNNN     NNN    CCC                PPP      PPP
NNN   NNN  NNN    CCC                PPPPPPPPPPP
NNN   NNN  NNN    CCC                PPPPPPPPPPPP
NNN   NNN  NNN    CCC                PPPPPPPPPPP
NNN    NNNNNN     CCC                PPP
NNN    NNNNNN     CCC                PPP
NNN    NNNNNN     CCC                PPP
NNN        NNN    CCC                PPP
NNN        NNN    CCC                PPP
NNN        NNN    CCC                PPP
NNN        NNN    CCCCCCCCCCC        PPP
NNN        NNN    CCCCCCCCCCC        PPP
NNN        NNN    CCCCCCCCCCC        PPP
```

NCPSTALIN

LIS

```
   1   0001   0  %TITLE  'Line Parameter Parse States and Data'
   2   0002   0  MODULE NCPSTALIN (IDENT = 'V04-000', LIST(NOOBJECT)) =
   3   0003   1  BEGIN
   4   0004   1
   5   0005   1
   6   0006   1  !****************************************************************
   7   0007   1  !*                                                              *
   8   0008   1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                     *
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  15   0015   1  !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
  16   0016   1  !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
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  20   0020   1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
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  22   0022   1  !*                                                              *
  23   0023   1  !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
  24   0024   1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.     *
  25   0025   1  !*                                                              *
  26   0026   1  !*                                                              *
  27   0027   1  !****************************************************************
  28   0028   1  !
  29   0029   1
  30   0030   1  !++
  31   0031   1  ! FACILITY:      Network Control Program (NCP)
  32   0032   1  !
  33   0033   1  ! ABSTRACT:
  34   0034   1  !
  35   0035   1  !      States and data for the parsing of NCP line parameters
  36   0036   1  !
  37   0037   1  ! ENVIRONMENT:  VAX/VMS Operating System
  38   0038   1  !
  39   0039   1  ! AUTHOR:       Darrell Duffy   , CREATION DATE: 10-September-79
  40   0040   1  !
  41   0041   1  ! MODIFIED BY:
  42   0042   1  !
  43   0043   1  !      V03-012 PRD0108         Paul R. DeStefano       23-Jul-1984
  44   0044   1  !              Change LINE PROTOCOL NI to LINE PROTOCOL ETHERNET.
  45   0045   1  !
  46   0046   1  !      V03-011 RPG0011         Bob Grosso              19-Feb-1983
  47   0047   1  !              Add LINE BUFFER SIZE, DU-2.
  48   0048   1  !
  49   0049   1  !      V03-010 RPG0010         Bob Grosso              16-Dec-1982
  50   0050   1  !              Include ETHERNET PROTOCOL parsing.
  51   0051   1  !
  52   0052   1  !      V03-009 RPG0009         Bob Grosso              29-Nov-1982
  53   0053   1  !              Remove references to nma$c_linpr_X25 and _LAP.
  54   0054   1  !
  55   0055   1  !      V03-008 RPG0008         Bob Grosso              22-Jul-1982
  56   0056   1  !              Add LINE PROTOCOL NI! add LINE PROTOCOL X25
  57   0057   1  !
```
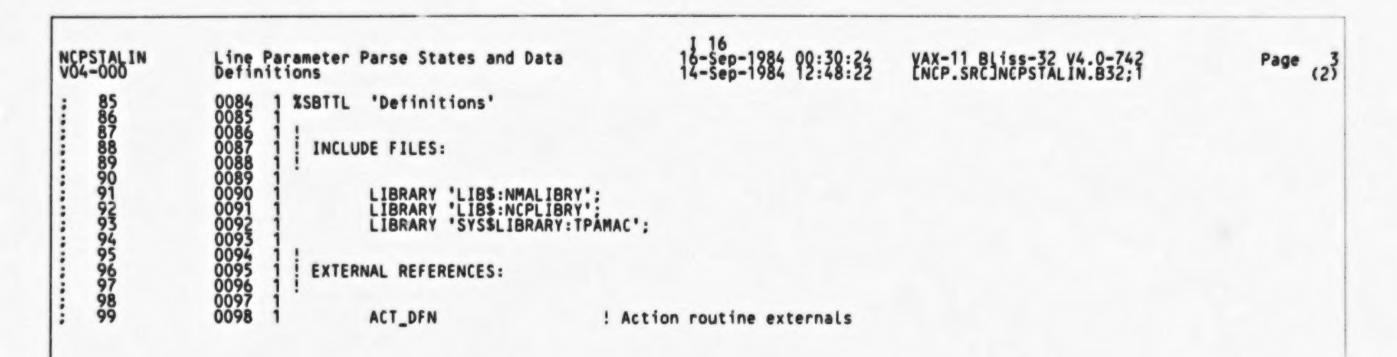
```
   58    0058  1 !    V03-007 RPG0007         Bob Grosso                28-Jun-1982
   59    0059  1 !            Change MAX BLOCK to MAX DATA.
   60    0060  1 !
   61    0061  1 !    V006    TMH0006         Tim Halvorsen   08-Mar-1982
   62    0062  1 !            Only prompt for "essential" and "important" parameters.
   63    0063  1 !
   64    0064  1 !    V005    TMH0005         Tim Halvorsen   08-Jan-1982
   65    0065  1 !            Remove TMH0003, thus restoring RETRANSMIT TIMER
   66    0066  1 !            to a line parameter, which is what NM V3.0 finally
   67    0067  1 !            came up with.
   68    0068  1 !
   69    0069  1 !    V004    TMH0004         Tim Halvorsen    2-Dec-1981
   70    0070  1 !            Force user to spell out "LAPB" protocol keyword
   71    0071  1 !            completely, since there is also a LAP protocol,
   72    0072  1 !            not yet supported by DNA.
   73    0073  1 !
   74    0074  1 !    V003    TMH0003         Tim Halvorsen   05-Aug-1981
   75    0075  1 !            Change RETRANSMIT TIMER to a circuit parameter,
   76    0076  1 !            rather than a line parameter.
   77    0077  1 !
   78    0078  1 !    V002    TMH0002         Tim Halvorsen   07-Jul-1981
   79    0079  1 !            Add line clock parameter.
   80    0080  1 !
   81    0081  1 !    V001    TMH0001         Tim Halvorsen   17-Jun-1981
   82    0082  1 !            Add new V2.2 line parameters
   83    0083  1 !--
```

```
   85      0084  1  %SBTTL  'Definitions'
   86      0085  1
   87      0086  1  !
   88      0087  1  ! INCLUDE FILES:
   89      0088  1  !
   90      0089  1
   91      0090  1        LIBRARY 'LIB$:NMALIBRY';
   92      0091  1        LIBRARY 'LIB$:NCPLIBRY';
   93      0092  1        LIBRARY 'SYS$LIBRARY:TPAMAC';
   94      0093  1
   95      0094  1  !
   96      0095  1  ! EXTERNAL REFERENCES:
   97      0096  1  !
   98      0097  1
   99      0098  1        ACT_DFN                       ! Action routine externals
```

```
  101          0099   1 %SBTTL   'Parameter blocks'
  102          0100   1
  103          0101   1  !
  104          0102   1  ! BIND DATA:
  105          0103   1  !
  106          0104   1
  107          0105   1  !
  108          0106   1  !        Parameter Blocks
  109          0107   1  !
  110          0108   1
  111        P 0109   1           BUILD_PCL
  112        P 0110   1
  113        P 0111   1           (LIN,
  114        P 0112   1
  115        P 0113   1           STA, NUMB,       PCLI_STA, ,
  116        P 0114   1           SER, NUMB,       PCLI_SER, ;
  117        P 0115   1           CTM, NUMW,       PCLI_LCT, ;
  118        P 0116   1           COS, NUMB,       PCLI_COS, ;
  119        P 0117   1           DEV, TKN,        PCLI_DEV, ;
  120        P 0118   1           PRO, NUMB,       PCLI_PRO, ;
  121        P 0119   1           DUP, NUMB,       PCLI_DUP, ;
  122        P 0120   1           CON, NUMB,       PCLI_CON, ;
  123        P 0121   1           CLO, NUMB,       PCLI_CLO, ;
  124        P 0122   1           TYP, NUMB,       PCLI_LTY, ;
  125        P 0123   1           STM, NUMW,       PCLI_STI, ;
  126        P 0124   1           NTM, NUMW,       PCLI_NTI, ;
  127        P 0125   1           HTI, NUMW,       PCLI_HTI, ;
  128        P 0126   1           MBL, NUMW,       PCLI_MBL, ;
  129        P 0127   1           MRT, NUMB,       PCLI_MRT, ;
  130        P 0128   1           MWI, NUMB,       PCLI_MWI, ;
  131        P 0129   1           TRB, NUMB,       PCLI_TRI, ;
  132        P 0130   1           SLT, NUMW,       PCLI_SLT, ;
  133        P 0131   1           DDT, NUMW,       PCLI_DDT, ;
  134        P 0132   1           DLT, NUMW,       PCLI_DLT, ;
  135        P 0133   1           SRT, NUMW,       PCLI_SRT, ;
  136        P 0134   1           BFN, NUMW,       PCLI_BFN, ;
  137        P 0135   1
  138        P 0136   1           MCD, TKN,        PCLI_MCD, ;
  139        P 0137   1           XMD, NUMB,       PCLI_XMD, ;
  140        P 0138   1           EPT, NUMW,       PCLI_EPT, ;
  141        P 0139   1           BFS, NUMW,       PCLI_BSZ, ;
  142        P 0140   1
  143        P 0141   1           , END, , ,
  144        P 0142   1
  145          0143   1           )
  146          0144   1
  147        P 0145   1           BUILD_PBK
  148        P 0146   1
  149        P 0147   1           (LIN,
  150        P 0148   1
  151        P 0149   1           STAON,  LITB, NMA$C_STATE_ON, LIN_STA,
  152        P 0150   1           STAOFF, LITB, NMA$C_STATE_OFF, LIN_STA,
  153        P 0151   1           STASVC, LITB, NMA$C_STATE_SER, LIN_STA,
  154        P 0152   1           SEN, LITB, NMA$C_LINSV_ENA, LIN_SER,
  155        P 0153   1           SDS, LITB, NMA$C_LINSV_DIS, LIN_SER,
  156        P 0154   1           CTM, NUMW, , ;
  157        P 0155   1           COS, NUMB, , ;
```

```
  158   P 0156  1          DEV, TKN,
  159   P 0157  1          PROPOI, LITB, NMA$C_LINPR_POI, LIN_PRO,
  160   P 0158  1          PROCON, LITB, NMA$C_LINPR_CON, LIN_PRO,
  161   P 0159  1          PROTRI, LITB, NMA$C_LINPR_TRI, LIN_PRO,
  162   P 0160  1          PRODMC, LITB, NMA$C_LINPR_DMC, LIN_PRO,
  163   P 0161  1          PROLAP, LITB, NMA$C_LINPR_LAPB, LIN_PRO,
  164   P 0162  1          PRONI, LITB, NMA$C_LINPR_NI, LIN_PRO,
  165   P 0163  1          DPF, LITB, NMA$C_DPX_FUL, LIN_DUP,
  166   P 0164  1          DPH, LITB, NMA$C_DPX_HAL, LIN_DUP,
  167   P 0165  1          CLB, LITB, NMA$C_LINCN_LOO, LIN_CON,
  168   P 0166  1          CNM, LITB, NMA$C_LINCN_NOR, LIN_CON,
  169   P 0167  1          CLE, LITB, NMA$C_LINCL_EXT, LIN_CLO,
  170   P 0168  1          CLI, LITB, NMA$C_LINCL_INT, LIN_CLO,
  171   P 0169  1          TYPPNT, LITB, NMA$C_LINTY_POI, LIN_TYP,
  172   P 0170  1          TYPCTL, LITB, NMA$C_LINTY_CON, LIN_TYP,
  173   P 0171  1          TYPTRB, LITB, NMA$C_LINTY_TRI, LIN_TYP,
  174   P 0172  1          TYPDMC, LITB, NMA$C_LINTY_DMC, LIN_TYP,
  175   P 0173  1          STM, NUMW, , ,
  176   P 0174  1          NTM, NUMW, , ,
  177   P 0175  1          HTI, NUMW, , ,
  178   P 0176  1          MBL, NUMW, , ,
  179   P 0177  1          MRT, NUMB, , ,
  180   P 0178  1          MWI, NUMB, , ,
  181   P 0179  1          TRB, NUMB, , ,
  182   P 0180  1          SLT, NUMW, , ,
  183   P 0181  1          DDT, NUMW, , ,
  184   P 0182  1          DLT, NUMW, , ,
  185   P 0183  1          SRT, NUMW, , ,
  186   P 0184  1
  187   P 0185  1          BFN, NUMW, , ,
  188   P 0186  1
  189   P 0187  1          MCD, TKN, , ,
  190   P 0188  1          MDDTE, LITB, NMA$C_X25MD_DTE, LIN_XMD,
  191   P 0189  1          MDDCE, LITB, NMA$C_X25MD_DCE, LIN_XMD,
  192   P 0190  1          MDDTL, LITB, NMA$C_X25MD_DTL, LIN_XMD,
  193   P 0191  1          MDDCL, LITB, NMA$C_X25MD_DCL, LIN_XMD,
  194   P 0192  1
  195   P 0193  1          EPT, NUMW, , ,
  196   P 0194  1          BFS, NUMW, , ,
  197   P 0195  1
  198     0196  1          )
  199     0197  1
  200   P 0198  1          BUILD_SDB
  201   P 0199  1
  202     0200  1          (LIN, NMA$C_ENT_LIN, VRB_ENT, LIN)
```

```
204          0201   1 %SBTTL  'Prompt strings'
205          0202   1
206          0203   1 !
207          0204   1 !          Build prompt strings
208          0205   1 !
209          0206   1
210          0207   1 BIND
211          0208   1
212      P   0209   1            PROMPT_STRINGS
213      P   0210   1            (LIN,
214      P   0211   1
215      P   0212   1            BFN, 'Number of receive buffers          (1-1024): ',
216      P   0213   1 !          CLO, 'Clock mode                (EXTERNAL, INTERNAL): ',
217      P   0214   1 !          CON, 'Controller mode             (NORMAL, LOOPBACK): ',
218      P   0215   1 !          CTM, 'Counter timer                (1-65535 seconds): ',
219      P   0216   1 !          DDT, 'Dead timer            (1-65535 milliseconds): ',
220      P   0217   1 !          DLT, 'Delay timer           (1-65535 milliseconds): ',
221      P   0218   1 !!         DEV, 'Device                            (dev-c-u.t): ',
222      P   0219   1 !          DPX, 'Duplex mode                      (FULL, HALF): ',
223      P   0220   1 !          HTI, 'Holdback timer        (1-65535 milliseconds): ',
224      P   0221   1 !          MBL, 'Maximum block                      (1-65535): ',
225      P   0222   1 !          MRT, 'Maximum retransmits                 (1-255): ',
226      P   0223   1 !          MWI, 'Maximum window              (1-255 blocks): ',
227      P   0224   1            PRO, 'Protocol (DDCMP CONTROL/DMC/POINT/TRIBUTARY, LAPB, ETHERNET): ',
228      P   0225   1 !          NTM, 'Retransmit timer      (1-65535 milliseconds): ',
229      P   0226   1 !          SLT, 'Scheduling timer (50-65535 milliseconds): ',
230      P   0227   1 !          SVM, 'Service mode              (ENABLED, DISABLED): ',
231      P   0228   1 !          STM, 'Service timer         (1-65535 milliseconds): ',
232      P   0229   1            STA, 'Line state               (ON, OFF, SERVICE): ',
233      P   0230   1 !          SRT, 'Stream timer          (0-65535 milliseconds): ',
234      P   0231   1
235          0232   2            )
236          0233   1            ;
```

```
  238          0234  1 %SBTTL  'State Table for Line Parameters'
  239          0235  1
  240          0236  1 $INIT_STATE (NCP$G_STTBL_LIN, NCP$G_KYTBL_LIN);
  241          0237  1
  242          0238  1 !
  243          0239  1 !          SET/DEFINE LINE Parameter States
  244          0240  1 !
  245          0241  1
  246    P 0242  1 $STATE  (ST_LIN,
  247    P 0243  1          ( (SE_ALL), ST_LIN_DOIT),            ! All parameter
  248    P 0244  1          (TPA$_EOS, , ACT$PMT_ON);                 ! Prompt if no keywords
  249    P 0245  1          (TPA$_LAMBDA, ST_LIN_PRC, ACT$PMT_OFF)  ! Process keywords
  250          0246  1          );
  251          0247  1
  252    P 0248  1          PROMPT_STATES                       ! Prompt for these parameters
  253    P 0249  1          (LIN,
  254    P 0250  1
  255    P 0251  1          BFN, PRO, STA
  256    P 0252  1
  257          0253  1          )
  258          0254  1
  259    P 0255  1 $STATE  (ST_LIN_DOIT,
  260    P 0256  1          (TPA$_EOS, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_LIN),
  261          0257  1          );
```

NCPSTALIN   Line Parameter Parse States and Data   B 1
V04-000   Dispatch States   16-Sep-1984 00:30:24   VAX-11 Bliss-32 V4.0-742   Page 8
     14-Sep-1984 12:48:22   [NCP.SRC]NCPSTALIN.B32;1   (6)

```
263      0258  1 %SBTTL  'Dispatch States'
264      0259  1
265      0260  1 !
266      0261  1 !          Dispatch States
267      0262  1 !
268      0263  1
269    P 0264  1 $STATE  (ST_LIN_PRC,
270    P 0265  1
271    P 0266  1          DISPATCH_STATES
272    P 0267  1          (LIN,
273    P 0268  1
274    P 0269  1          BFS, 'BUFFER',
275    P 0270  1          CLO, 'CLOCK',
276    P 0271  1          CON, 'CONTROLLER',
277    P 0272  1          COS, 'COST'
278    P 0273  1          CTM, 'COUNTER',
279    P 0274  1          DDT, 'DEAD'
280    P 0275  1          DLT, 'DELAY'
281    P 0276  1          DEV, 'DEVICE',
282    P 0277  1          DPX, 'DUPLEX',
283    P 0278  1          EPT, 'ETHERNET',
284    P 0279  1          HTI, 'HOLDBACK',
285    P 0280  1          MAX, 'MAXIMUM',
286    P 0281  1          MCD, 'MICROCODE',
287    P 0282  1          XMD, 'MODE',
288    P 0283  1          NTM, 'NORMAL',            ! [V2 only - same as RETRANSMIT TIMER]
289    P 0284  1          PRO, 'PROTOCOL',
290    P 0285  1          BFN, 'RECEIVE',
291    P 0286  1          NTM, 'RETRANSMIT',
292    P 0287  1          SLT, 'SCHEDULING',
293    P 0288  1          SVC, 'SERVICE',
294    P 0289  1          STA, 'STATE'
295    P 0290  1          SRT, 'STREAM',
296    P 0291  1          TRB, 'TRIBUTARY',
297    P 0292  1          TYP, 'TYPE',
298    P 0293  1
299    P 0294  1          )
300    P 0295  1          ,(TPAS_EOS, ST_LIN_DOIT)
301      0296  1          );
```

```
  303     0297  1
  304     0298  1   %SBTTL  'Process States'
  305     0299  1
  306     0300  1   !
  307     0301  1   !       Process states
  308     0302  1   !
  309     0303  1
  310   P 0304  1           PROCESS_STATES
  311   P 0305  1           (LIN,
  312   P 0306  1
  313   P 0307  1           BFS, 'SIZE',
  314   P 0308  1           CLO, ,
  315   P 0309  1           CON, ,
  316   P 0310  1           COS, ,
  317   P 0311  1           CTM, 'TIMER',
  318   P 0312  1           DDT, 'TIMER',
  319   P 0313  1           DLT, 'TIMER',
  320   P 0314  1           DEV, ,
  321   P 0315  1           DPX, ,
  322   P 0316  1           HTI, 'TIMER',
  323   P 0317  1           MWI, ,                  ! From MAX below
  324   P 0318  1           MRT, ,                  ! From MAX below
  325   P 0319  1           MBL, ,                  ! From MAX below
  326   P 0320  1           NTM, 'TIMER',
  327   P 0321  1           PRO, ,
  328   P 0322  1           BFN, 'BUFFERS',
  329   P 0323  1           SLT, 'TIMER',
  330   P 0324  1           STM, ,                  ! From SVC below
  331   P 0325  1           SVM, ,                  ! From SVC below
  332   P 0326  1           STA, ,
  333   P 0327  1           SRT, 'TIMER',
  334   P 0328  1           TRB, ,
  335   P 0329  1           TYP, ,
  336   P 0330  1
  337   P 0331  1           MCD, 'DUMP',
  338   P 0332  1           XMD, 'DUMP',
  339   P 0333  1           EPT, 'PROTOCOL',
  340     0334  1           )
```

```
342      0335   1 %SBTTL  'Subexpression States'
343      0336   1
344      0337   1 !
345      0338   1 !        Sub_expressions
346      0339   1 !
347      0340   1
348   P  0341   1          SUB_EXPRESSIONS
349   P  0342   1          (LIN,
350   P  0343   1
351   P  0344   1          BFN, TPAS_DECIMAL,
352   P  0345   1          COS, TPAS_DECIMAL,
353   P  0346   1          CTM, TPAS_DECIMAL,
354   P  0347   1          NTM, TPAS_DECIMAL,
355   P  0348   1          STM, TPAS_DECIMAL,
356   P  0349   1          TRM, TPAS_DECIMAL,
357   P  0350   1          HTI, TPAS_DECIMAL,
358   P  0351   1          SLT, TPAS_DECIMAL,
359   P  0352   1          DDT, TPAS_DECIMAL,
360   P  0353   1          DLT, TPAS_DECIMAL,
361   P  0354   1          SRT, TPAS_DECIMAL,
362   P  0355   1          MBL, TPAS_DECIMAL,
363   P  0356   1          MRT, TPAS_DECIMAL,
364   P  0357   1          MWI, TPAS_DECIMAL,
365   P  0358   1          DEV, (SE_LINE_ID),
366   P  0359   1
367   P  0360   1          MCD, (SE_FILE_ID),
368   P  0361   1          EPT, TPAS_HEX,
369   P  0362   1          BFS, TPAS_DECIMAL,
370      0363   1          )
371      0364   1
```

```
373     0365   1 !
374     0366   1 !              Dispatch on MAXIMUM keyword
375     0367   1 !
376     0368   1
377   P 0369   1   $STATE  (ST_LIN_PRC_MAX,
378   P 0370   1
379   P 0371   1           DISPATCH_STATES
380   P 0372   1           (LIN,
381   P 0373   1
382   P 0374   1           MBL, 'BLOCK',
383   P 0375   1           MRT, 'RETRANSMITS',
384   P 0376   1           MWI, 'WINDOW',
385   P 0377   1
386   P 0378   1           )
387     0379   1           );
388     0380   1
389     0381   1 !
390     0382   1 !              Dispatch on SERVICE keyword
391     0383   1 !
392     0384   1
393   P 0385   1   $STATE  (ST_LIN_PRC_SVC,
394   P 0386   1           ( (ST_LIN_SVM), ST_LIN_PRC),
395   P 0387   1           ('TIMER')
396     0388   1           );
397     0389   1
398   P 0390   1   $STATE  (,
399   P 0391   1           ( (ST_LIN_STM), ST_LIN_PRC),
400     0392   1           );
401     0393   1
402   P 0394   1   $STATE  (ST_LIN_SVM,
403   P 0395   1
404   P 0396   1           KEYWORD_STATE
405   P 0397   1           (LIN,
406   P 0398   1
407   P 0399   1           SEN, 'ENABLED',
408   P 0400   1           SDS, 'DISABLED',
409   P 0401   1
410   P 0402   1           )
411     0403   1           );
412     0404   1
413     0405   1 !
414     0406   1 !              Protocol
415     0407   1 !
416     0408   1
417   P 0409   1   $STATE  (ST_LIN_PRO,
418   P 0410   1
419   P 0411   1           ('LAP', TPAS_FAIL),               ! Force LAPB to be spelled out to
420   P 0412   1                                            ! allow for LAP protocol in the future
421   P 0413   1
422   P 0414   1           KEYWORD_STATE
423   P 0415   1           (LIN,
424   P 0416   1
425   P 0417   1           PROLAP, 'LAPB',
426   P 0418   1           PRONI, 'ETHERNET',
427   P 0419   1
428   P 0420   1           ),
429   P 0421   1
```

```
430      P 0422  1           DISPATCH_STATES
431      P 0423  1           (LIN,
432      P 0424  1
433      P 0425  1           DDCMP, 'DDCMP',
434      P 0426  1
435      P 0427  1           )
436      P 0428  1           );
437        0429  1
438      P 0430  1  $STATE  (ST_LIN_PRC_DDCMP,
439      P 0431  1
440      P 0432  1           KEYWORD_STATE
441      P 0433  1           (LIN,
442      P 0434  1
443      P 0435  1           PROPOI, 'POINT',
444      P 0436  1           PROCON, 'CONTROL',
445      P 0437  1           PRODMC, 'DMC',
446      P 0438  1           PROTRI, 'TRIBUTARY',
447      P 0439  1
448      P 0440  1           )
449        0441  1           );
450        0442  1
451        0443  1  !
452        0444  1  !        Duplex mode
453        0445  1  !
454        0446  1
455      P 0447  1  $STATE  (ST_LIN_DPX,
456      P 0448  1
457      P 0449  1           KEYWORD_STATE
458      P 0450  1           (LIN,
459      P 0451  1
460      P 0452  1           DPF, 'FULL',
461      P 0453  1           DPH, 'HALF',
462      P 0454  1
463      P 0455  1           )
464        0456  1           );
465        0457  1
466        0458  1  !
467        0459  1  !        Line state
468        0460  1  !
469        0461  1
470      P 0462  1  $STATE  (ST_LIN_STA,
471      P 0463  1
472      P 0464  1           KEYWORD_STATE
473      P 0465  1           (LIN,
474      P 0466  1
475      P 0467  1           STAOFF, 'OFF',
476      P 0468  1           STAON, 'ON',
477      P 0469  1           STASVC, 'SERVICE',
478      P 0470  1
479      P 0471  1           )
480        0472  1           );
481        0473  1
482        0474  1
483        0475  1  !
484        0476  1  !        Line type
485        0477  1  !
486        0478  1
```

```
  487      P 0479   1 $STATE  (ST_LIN_TYP,
  488      P 0480   1
  489      P 0481   1         KEYWORD_STATE
  490      P 0482   1         (LIN,
  491      P 0483   1
  492      P 0484   1         TYPCTL, 'CONTROL',
  493      P 0485   1         TYPPNT, 'POINT',
  494      P 0486   1         TYPTRB, 'TRIBUTARY',
  495      P 0487   1         TYPDMC, 'DMC',
  496      P 0488   1
  497      P 0489   1         )
  498        0490   1         );
  499        0491   1
  500        0492   1 !
  501        0493   1 !       Line controller mode
  502        0494   1 !
  503        0495   1
  504      P 0496   1 $STATE  (ST_LIN_CON,
  505      P 0497   1
  506      P 0498   1         KEYWORD_STATE
  507      P 0499   1         (LIN,
  508      P 0500   1
  509      P 0501   1         CLB, 'LOOPBACK',
  510      P 0502   1         CNM, 'NORMAL',
  511      P 0503   1
  512      P 0504   1         )
  513        0505   1         );
  514        0506   1
  515        0507   1 !
  516        0508   1 !       Line clock mode
  517        0509   1 !
  518        0510   1
  519      P 0511   1 $STATE  (ST_LIN_CLO,
  520      P 0512   1
  521      P 0513   1         KEYWORD_STATE
  522      P 0514   1         (LIN,
  523      P 0515   1
  524      P 0516   1         CLE, 'EXTERNAL',
  525      P 0517   1         CLI, 'INTERNAL',
  526      P 0518   1
  527      P 0519   1         )
  528        0520   1         );
  529        0521   1
  530        0522   1 !
  531        0523   1 !       X25 line mode
  532        0524   1 !
  533        0525   1
  534      P 0526   1 $STATE  (ST_LIN_XMD,
  535      P 0527   1
  536      P 0528   1         KEYWORD_STATE
  537      P 0529   1         (LIN,
  538      P 0530   1
  539      P 0531   1         MDDTE, 'DTE',
  540      P 0532   1         MDDCE, 'DCE',
  541      P 0533   1         MDDTL, 'DTE_LOOP',
  542      P 0534   1         MDDCL, 'DCE_LOOP',
  543      P 0535   1
```

NCPSTALIN
V04-000
Line Parameter Parse States and Data
Subexpression States
H 1
16-Sep-1984 00:30:24   VAX-11 BLiss-32 V4.0-742
14-Sep-1984 12:48:22   [NCP.SRC]NCPSTALIN.B32;1
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(9)

```
; 544        P 0536 1        )
; 545          0537 1        );
```

```
 547    0538  1 %SBTTL  'Define Subexpressions'
 548    0539  1
 549    0540  1 !
 550    0541  1 !         Define Subexpressions from Library
 551    0542  1 !
 552    0543  1
 553    0544  1           SEM_ALL                    ! All parameter
 554    0545  1           SEM_FILE_ID                ! File spec
 555    0546  1           SEM_LINE_ID                ! Device name string
```

```
: 557    0547  1 %SBTTL  'Object Listing of Parse Table'
: 558    0548  1
: 559    0549  1 END                                 !End of module
: 560    0550  0 ELUDOM
```

NCPSTACNO
LIS

NCPSTALIN
LIS

NCPSTACIR
LIS

NCPSTADUM
LIS

NCPSTADIS
LIS

NCPSTACON
LIS

NCPSTACLP
LIS

NCPSTAMAC
LIS

NCPSTAMSE
LIS

NCPSTAMTR
LIS

NCPSTAMOD
LIS

NCPSTALOA
LIS

NCPSTALOO
LIS

NCPSTAMPR
LIS

NCPSTALOG
LIS